

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0404	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0404 Boggs	U	4.10						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.23	0.01	1.27	30.95%				
Trim / Thin Trees	0.04	0.04	0.20	4.87%				
Encroachments	0.02	0.02	0.10	2.44%	0.03	0.01		
Animal Control	0.27	0.27	1.35	32.90%				
Slope Stability	0.02		0.02	0.49%				
Erosion / Bank Caving	0.01	0.01	0.05	1.22%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.24%				
Riprap Revetments	0.04		0.04	0.98%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02	0.01	0.06	1.46%				
DWR UCIP Field Study					0.15	0.04		
<i>LMA Totals:</i>	1.66	0.36	3.10	75.55%	0.18	0.05	0.00	0.00

Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles						
RD0404	M	2.35						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03	0.01	0.07	2.98%				
Trim / Thin Trees	0.02	0.03	0.14	5.96%				
Encroachments	0.02	0.01	0.06	2.55%	0.02	0.01		
Animal Control	0.01		0.01	0.43%				
Slope Stability	0.02		0.02	0.85%				
Erosion / Bank Caving	0.01		0.01	0.43%				
Riprap Revetments	0.04		0.04	1.70%				
<i>Supplemental</i>								
DWR Erosion Survey	0.02	0.01	0.06	2.55%				
DWR UCIP Field Study					0.10	0.03		
<i>Unit Totals:</i>	0.17	0.06	0.41	17.46%	0.12	0.04	0.00	0.00

Unit No. 02 French Camp Slough RB	Overall Unit Rating	Total Unit Miles						
RD0404	U	1.75						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.20		1.20	68.39%				
Trim / Thin Trees	0.02	0.01	0.06	3.42%				
Encroachments		0.01	0.04	2.28%	0.01			
Animal Control	0.26	0.27	1.34	76.37%				
Erosion / Bank Caving		0.01	0.04	2.28%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.57%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.05	0.01		
<i>Unit Totals:</i>	1.49	0.30	2.69	153.30%	0.06	0.01	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 0404 Boggs

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0404 Boggs

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	2.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/7/2016 - 4/7/2016		10/6/2016 - 10/6/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Bob Winter KSN		Bob Winter KSN	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0404_01_s_2013_24				
Comment Code					
Inspector Comment					
The LMA has a copy of the O & M Manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0404_01_s_2013_25				
Comment Code					
Inspector Comment					
LMA has adequate flood fight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	26
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0404_01_s_2013_26				
Comment Code					
Inspector Comment					
LMA staff are maintaining their flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.13	Rating **	M	Issue No.	31
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.940677 °	37.940677 °
				-121.343790 °	-121.343790 °
DWR ID	DWR_RD0404_01_s_2015_31				
Comment Code					
MA : Material					
Inspector Comment					
Remove the large concrete blocks from landward slope.					

Photo 1 of 1 : FA_2016_RD0404_305_31_20160929_00022.jpg



Looking southeast at concrete blocks on landward slope.

LM Start	0.21	Rating **	C	Issue No.	9
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939480 °	37.939480 °
				-121.342730 °	-121.342730 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No new erosion observed at the repaired site.					
06/24/2015: The erosion has been repaired.					
06/19/2014: No significant change observed.					
08/13/2013: The boat survey found the erosion has progressed significantly in size and in number of pocket erosions.					
08/07/2012: The site has been visited by boat survey. The erosion has developed in size, and more pocket erosions were found.					
8/23/2011: Pockets erosions observed by last survey seem to have progressed during the last flood season. Continuous monitoring of this site suggested					
9/07/2010: No significant change observed on site. There is emergent vegetation at the water line. Several pocket erosions lined along the lower slope that stretches from RM 40.86 to RM 41.14.					
9/30/2009: No major change observed; the site was combined with other existing sites are RM's 40.93, 40.98, and 41.14 as one site; several pocket erosion just above non-uniform toe rip rap; previously rated "U"; bare spots along the upper slope.					
2008: Possibly caused by wave wash erosion; several pocket erosion along the lower slope; site is inside of a bend.					
2006: Visited site 09/12/06. [2016 Site ID:RD0404U01RM40.86]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.34	Rating **	C	Issue No.	11
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939228 °	37.939228 °
				-121.340786 °	-121.340786 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No sign of new erosion observed at the repaired site.					
06/24/2015: The erosion site has been repaired. Minor erosion is visible at the water edge.					
06/19/2014: No significant change observed.					
08/13/2013: The pocket erosion is located at immediately upstream of a small oak tree. [2016 Site ID:RD0404U01RM40.98]					

No Photos

LM Start	0.34	Rating **	U	Issue No.	32
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939190 °	37.939190 °
				-121.338280 °	-121.338280 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/7/2012: The erosion is next to a repaired site and approximately 400 feet downstream of a river bend. There are broken concretes at the upper levee slope, but not visible at the levee toe or lower slope. Likely the protection concrete blocks have been washed away. [2016 Site ID:RD0404U01RM41.11]					

Photo 1 of 2 : SJR2016_RD0404U01RM41.11_1.jpg



Front view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.34	Rating **	U	Issue No.	32 (cont)	
LM End	0.34	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.939190 °		37.939190 °
				-121.338280 °		-121.338280 °
DWR ID						
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/7/2012: The erosion is next to a repaired site and approximately 400 feet downstream of a river bend. There are broken concretes at the upper levee slope, but not visible at the levee toe or lower slope. Likely the protection concrete blocks have been washed away. [2016 Site ID:RD0404U01RM41.11]						

Photo 2 of 2 : SJR2016_RD0404U01RM41.11_2.jpg



Front view of the site.

LM Start	0.43	Rating **	M	Issue No.	5
LM End	0.43	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.939635 °	37.939635 °
				-121.339063 °	-121.339063 °
DWR ID	DWR_RD0404_01_s_2013_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
District grouted hole, and the deficiency still exist.					

Photo 1 of 4 : FA_2016_RD0404_305_5_20160929_00004.jpg



Looking at partialled grouted rodent hole on levee crown (Fall 2014).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 0404 Boggs

LM Start	0.43	Rating **	M	Issue No.	5 (cont)
LM End	0.43	Issue Type +	Ma	Location *	CR

Photo 2 of 4 : FA_2016_RD0404_305_5_20160929_00005.jpg



Looking at partially grouted rodent hole on levee crown

Photo 3 of 4 : FA_2016_RD0404_305_5_20160929_00006.jpg



Looking at rodent hole on levee crown.

Photo 4 of 4 : FA_2016_RD0404_305_5_20160929_00007.jpg



Looking at one of several rodent holes on levee crown.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.45	Rating **	C	Issue No.	104
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.939627 °	37.939627 °
				-121.338808 °	-121.338808 °
DWR ID	DWR_RD0404_01_s_2012_104				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove bamboo on waterside toe. Bamboo is not within twenty feet zone, but should be removed to stop from spreading along waterward slope. Bamboo has increased in size.					

No Photos

LM Start	0.48	Rating **	U	Issue No.	111
LM End	0.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.939640 °	37.939640 °
				-121.338175 °	-121.338175 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40783					
DS_ID:22968					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Flap gate missing from WS toe.					
FIELD_STRUCT_DESC: 1 of 2. Two 36-inch corrugated metal drainage pipes.					
FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_FA_2016_40783_20082.jpg



WS- two CM pipes with damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.48	Rating **	U	Issue No.	111 (cont)	
LM End	0.48	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.939640 °		37.939640 °
				-121.338175 °		-121.338175 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40783						
DS_ID:22968						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: Flap gate missing from WS toe.						
FIELD_STRUCT_DESC: 1 of 2. Two 36-inch corrugated metal drainage pipes.						
FS Date: 3/26/2013						

Photo 2 of 2 : UCIP_FA_2016_40783_20081.jpg



WS- left CM pipe with missing flap gate

LM Start	0.48	Rating **	U	Issue No.	112
LM End	0.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.939640 °	37.939640 °
				-121.338175 °	-121.338175 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40784					
DS_ID:22969					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Pipe has broken flap gate.					
FIELD_STRUCT_DESC: 2 of 2. Two 36-inch corrugated metal drainage pipes.					
FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_FA_2016_40784_20086.jpg



WS- two CM pipes with damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.48	Rating **	U	Issue No.	112 (cont)	
LM End	0.48	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.939640 °		37.939640 °
				-121.338175 °		-121.338175 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40784						
DS_ID:22969						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: Pipe has broken flap gate.						
FIELD_STRUCT_DESC: 2 of 2. Two 36-inch corrugated metal drainage pipes.						
FS Date: 3/26/2013						

Photo 2 of 2 : UCIP_FA_2016_40784_20085.jpg



WS- right CM pipe with damaged flap gate

LM Start	0.59	Rating **	C	Issue No.	40	
LM End	0.61	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.939133	°	37.939133
				-121.336100	°	-121.336100
DWR ID						
Comment Code						
Inspector Comment						
07/25/2016: No sign of erosion observed at the repaired site.						
06/24/2015: The erosion has been repaired.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The site was first discovered by levee inspector in the						
spring inspection. Levee slope was protected with broken concrete						
blocks, but those blocks have been washed away during high flows.						
[2016 Site ID:RD0404U01RM41.22]						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	108
LM End	0.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11087
DS_ID:17952
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Steel intake structure on landside of the levee.
FIELD_STRUCT_DESC: 2 of 3. 30-inch pipes through levee, 22.0 feet below the crown. Waterward end with flap gates. Landward end filled with dirt. Steel intake structure on landside of the levee. Middle flap gate missing and right flap gate broken as of 1/24/07.
FS Date: 3/26/2013

LM Start	0.65	Rating **	M	Issue No.	108 (cont)
LM End	0.65	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_11087_20041.jpg



LS- intake structure

Photo 2 of 2 : UCIP_FA_2016_11087_20040.jpg



LS- overview of land side of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	105
LM End	0.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:12383
DS_ID:18811
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Steel intake structure on LS
FIELD_STRUCT_DESC: 3 of 3. 30-inch pipes through levee, 22.0 feet below the crown. Waterward end with flap gates. Steel intake structure on landside. Landward end filled with dirt. Middle flap gate missing and right flap gate broken as of 1/24/07.
FS Date: 3/26/2013

LM Start	0.66	Rating **	M	Issue No.	105 (cont)
LM End	0.66	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_12383_20047.jpg



LS- steel intake structure

Photo 2 of 2 : UCIP_FA_2016_12383_20046.jpg



WS- CM pipes and damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	106
LM End	0.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.938670 °	37.938670 °
				-121.335397 °	-121.335397 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:12384
DS_ID:18810
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Steel intake structure on LS.
FIELD_STRUCT_DESC: 1 of 3. 30-inch CM pipes through levee, 22.0 feet below the crown. Waterward end with damaged flap gates. Steel intake structure on landside. On waterside, middle flap gate missing and right flap gate broken as of 1/24/07.
FS Date: 3/26/2013

LM Start	0.66	Rating **	M	Issue No.	106 (cont)
LM End	0.66	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_12384_20054.jpg



LS- steel intake structure

Photo 2 of 2 : UCIP_FA_2016_12384_20053.jpg



WS- CM pipes with damaged flap gates

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.75	Rating **	M	Issue No.	7
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937758 °	37.937758 °
				-121.334149 °	-121.334149 °
DWR ID	DWR_RD0404_01_s_2012_7				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_305_7_20160929_00008.jpg



Looking southeast at elderberry on landside slope.

LM Start	0.75	Rating **	U	Issue No.	113
LM End	0.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.937657 °	37.937657 °
				-121.334158 °	-121.334158 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46628					
DS_ID:17945					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Partially burried flap gate					
FIELD_STRUCT_DESC: 42-inch CM drainage pipe 18.0 FBC. Flap gate, concrete headwall and spillway on WS. Pumphouse on LS.					
Abandoned concrete headwall, power pole, and 2 wooden piles found on LS. O&M #: SJR 001					
FS Date: 8/4/2015					

Photo 1 of 2 : UCIP_FA_2016_46628_19962.jpg



WS- drainage outlet structure and CM pipe with flapgate

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0404 Boggs

Looking southeast at dense trees on landward slope and toe.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.79	Rating **	M	Issue No.	115
LM End	0.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.937212 °	37.937212 °
				-121.333762 °	-121.333762 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:46810
DS_ID:17946
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears abandoned; if so should be done so properly.
FIELD_STRUCT_DESC: Underground telephone cable through levee and across channel. Non-operational.
FS Date: 8/4/2015

LM Start	0.79	Rating **	M	Issue No.	115 (cont)
LM End	0.79	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_46810_74753.jpg



WS view looking south: conduits penetrating levee slope now disconnected with those attached to bridge

Photo 2 of 2 : UCIP_FA_2016_46810_74754.jpg



WS view looking west: conduits thru levee and attached to bridge

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.89	Rating **	M	Issue No.	17
LM End	0.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.936159 °	37.936159 °
				-121.332711 °	-121.332711 °
DWR ID	DWR_RD0404_01_f_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.95	Rating **	M	Issue No.	2
LM End	0.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.935990 °	37.935990 °
				-121.331600 °	-121.331600 °
DWR ID	DWR_RD0404_01_s_2012_2				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

No Photos

LM Start	1.04	Rating **	U	Issue No.	3
LM End	1.04	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.935622 °	37.935622 °
				-121.330137 °	-121.330137 °
DWR ID	DWR_RD0404_01_f_2013_3				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on waterward slope and shoulder.					

Photo 1 of 2 : FA_2016_RD0404_305_3_20160929_00001.jpg



Looking northwest at downed tree on waterward slope and shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.09	Rating **	M	Issue No.	114
LM End	1.09	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.935195 °	37.935195 °
				-121.329398 °	-121.329398 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46801					
DS_ID:25128					
EP_NO: 1164					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Conversation with WWTP engineer Ali Gharegozloo suggested this pipe has been welded shut. If so, mode of abandonment needs verification.					
FIELD_STRUCT_DESC: 60-inch reinforced concrete sewage pipe 27					
FBC. Reinforced concrete apron and cut-off walls, steel sheet piling apron installed with pipe on WS slope. Headwall, stairs, pump with shutoff valve visible on WS slope. Apparent shut off valves 30 ft off LS toe in alignment with pipe. Permit No. 1164, 1947.					
FS Date: 7/9/2015					

Photo 1 of 2 : UCIP_FA_2016_46801_74745.jpg



LS view: apparent shut off valves on WWTP property in alignment with 60-inch pipe.

LM Start	1.09	Rating **	M	Issue No.	114 (cont)
LM End	1.09	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_46801_74747.jpg



WS view: pump with shutoff valves, headwall, stairs visible. Concrete debris along WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.12	Rating **	C	Issue No.	39
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.934870 °	37.934870 °
				-121.328903 °	-121.328903 °
DWR ID	DWR_RD0404_01_s_2016_39				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	1.15	Rating **	M	Issue No.	38
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.934492 °	37.934492 °
				-121.328570 °	-121.328570 °
DWR ID	DWR_RD0404_01_s_2016_38				
Comment Code					
Inspector Comment					
Concrete with rebar on waterward shoulder and slope.					

Photo 1 of 2 : FA_2016_RD0404_305_38_20160929_00028.jpg



Photo 2 of 2 : FA_2016_RD0404_305_38_20160929_00029.jpg



Looking southwest at concrete rubble with rebar on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.19	Rating **	U	Issue No.	101
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.934058 °	37.934058 °
				-121.328188 °	-121.328188 °
DWR ID	DWR_RD0404_01_f_2016_101				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope.					

LM Start	1.19	Rating **	U	Issue No.	101 (cont)
LM End	1.19	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_RD0404_305_101_20161007_00067.jpg



Looking east at dense vegetation on landward slope. (Fall 2016)

Photo 2 of 2 : FA_2016_RD0404_305_101_20160929_00031.jpg



Looking southeast at overhanging trees on landside slope. (Fall 2015)

LM Start	1.35	Rating **	U	Issue No.	100
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.931945 °	37.931945 °
				-121.327150 °	-121.327150 °
DWR ID	DWR_RD0404_01_s_2012_100				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_305_100_20161007_00068.jpg



Looking northwest at untrimmed trees on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	41
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930450 °	37.930450 °
				-121.327450 °	-121.327450 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: A series of scarp erosions have been found on the lower levee slope and at the levee toe. [2016 Site ID:RD0404U01RM42.02]					

LM Start	1.44	Rating **	M	Issue No.	41 (cont)
LM End	1.46	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD0404U01RM42.02_1.jpg



Downstream view of the erosion.

Photo 2 of 2 : SJR2016_RD0404U01RM42.02_3.jpg



Close view of the erosion. The upstream end of the site is protected by riprap revetment.

LM Start	1.50	Rating **	U	Issue No.	27
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.896544 °	37.896544 °
				-121.327121 °	-121.327121 °
DWR ID	DWR_RD0404_01_f_2016_27				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_305_27_20161007_00070.jpg



Looking west at untrimmed trees on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	37
LM End	1.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.929065 °	37.929065 °
				-121.327265 °	-121.327265 °
DWR ID	DWR_RD0404_01_s_2016_37				
Comment Code					
PI : Pipe					
Inspector Comment					
3-4 inch depression across levee crown.					

No Photos

LM Start	1.55	Rating **	M	Issue No.	116
LM End	1.55	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.929046 °	37.929046 °
				-121.327248 °	-121.327248 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50763 DS_ID:18708 EP_NO: 4175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/17/2016 FPIIB Inspector Richard Willoughby noted 3-4 inch depression over pipes on crown, an indication of possible pipe collapse. (K. Fazel - UCIP) FIELD_STRUCT_DESC: 1 of 2. 12-inch-diameter steel pipes through levee, 5.0 feet below the crown. Siphon breakers on the waterward shoulder. Pump and electric control panel/pole on landside approximately 200 ft from levee. (Permit No. 4175-1963) FS Date: 11/17/2016					

Photo 1 of 2 : UCIP_FA_2016_50763_20104.jpg



LS- overview of pipe and pump (far right)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	116 (cont)	
LM End	1.55	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.929046 °		37.929046 °
				-121.327248 °		-121.327248 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50763 DS_ID:18708 EP_NO: 4175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/17/2016 FPIIB Inspector Richard Willoughby noted 3-4 inch depression over pipes on crown, an indication of possible pipe collapse. (K. Fazel - UCIP) FIELD_STRUCT_DESC: 1 of 2. 12-inch-diameter steel pipes through levee, 5.0 feet below the crown. Siphon breakers on the waterward shoulder. Pump and electric control panel/pole on landside approximately 200 ft from levee. (Permit No. 4175-1963) FS Date: 11/17/2016						

Photo 2 of 2 : UCIP_FA_2016_50763_20103.jpg



WS- steel pipes and siphon breakers in steel pipe risers.

LM Start	1.55	Rating **	M	Issue No.	117
LM End	1.55	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.929046 °	37.929046 °
				-121.327248 °	-121.327248 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50764 DS_ID:17955 EP_NO: 4175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/17/2016 FPIIB Inspector Richard Willoughby noted 3-4 inch dip in crown over pipes, an indication of possible pipe collapse. (K. Fazel - UCIP) FIELD_STRUCT_DESC: 2 of 2. 12-inch-diameter pipes through levee, 5.0 feet below the crown. Siphon breakers on the waterward shoulder. Power pole, electric control panel and pump about 200 ft from the levee on landside. (Permit No. 4175-1963) FS Date: 11/17/2016					

Photo 1 of 2 : UCIP_FA_2016_50764_19994.jpg



WS- steel pipes and siphon breakers in steel pipe risers.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	117 (cont)	
LM End	1.55	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.929046 °	37.929046 °	
				-121.327248 °	-121.327248 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50764 DS_ID:17955 EP_NO: 4175 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/17/2016 FPIIB Inspector Richard Willoughby noted 3-4 inch dip in crown over pipes, an indication of possible pipe collapse. (K. Fazel - UCIP) FIELD_STRUCT_DESC: 2 of 2. 12-inch-diameter pipes through levee, 5.0 feet below the crown. Siphon breakers on the waterward shoulder. Power pole, electric control panel and pump about 200 ft from the levee on landside. (Permit No. 4175-1963) FS Date: 11/17/2016						

Photo 2 of 2 : UCIP_FA_2016_50764_19996.jpg



LS- pipe and pump on far left.

LM Start	1.57	Rating **	M	Issue No.	107
LM End	1.57	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.928718 °	37.928718 °
				-121.327206 °	-121.327206 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:12386					
DS_ID:17956					
EP_NO: 15562					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: According to Bob Winter of KSN/LMA representative.					
Fiber optics cable goes through levee. No sign/indicators found. And photos not taken.					
FIELD_STRUCT_DESC: 4-inch steel pipe with fiber optics communication cable through levee. Cable Crosses the channel.					
(Permit No. 15562-1991). The pipe is 34 feet below the levee crown.					
FS Date: 3/26/2013					

Photo 1 of 1 : UCIP_FA_2016_12386_20062.jpg



Aerial Photo @HLM=1.5791: No sign posts/markers found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0404 Boggs

No Photos

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.64	Rating **	M	Issue No.	109
LM End	1.64	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.928090 °	37.928090 °
				-121.326215 °	-121.326215 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40487 DS_ID:18812 EP_NO: 10897 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned crossing. WS pipe capped with steel pipe and LS pipe cut. FIELD_STRUCT_DESC: Abandoned 14-inch irrigation pipe. 3.0 feet below levee crown (Permit No. 10897). FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_FA_2016_40487_20064.jpg



WS- steel pipe capped with steel plate.

LM Start	1.64	Rating **	M	Issue No.	109 (cont)
LM End	1.64	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40487_20063.jpg



LS- concrete standpipe on levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.67	Rating **	C	Issue No.	30
LM End	1.67	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927862 °	37.927862 °
				-121.325832 °	-121.325832 °
DWR ID	DWR_RD0404_01_s_2015_30				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree limb on waterward slope.					

No Photos

LM Start	1.70	Rating **	A/W	Issue No.	29
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927517 °	37.926632 °
				-121.325515 °	-121.324868 °
DWR ID	DWR_RD0404_01_s_2015_29				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Dense untrimmed trees on waterward slope. Army Corp veg site.Tree and woody vegetation planted by the DWR but not being maintain according to agreement.					

Photo 1 of 2 : FA_2016_RD0404_305_29_20160929_00020.jpg



Looking north at dense vegetation on waterward slope.

LM Start	1.70	Rating **	A/W	Issue No.	29 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0404_305_29_20160929_00021.jpg



Looking south at dense vegetation on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	34
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.926830 °	37.926830 °
				-121.324998 °	-121.324998 °
DWR ID	DWR_RD0404_01_s_2016_34				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	1.81	Rating **	M	Issue No.	110
LM End	1.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.926168 °	37.926168 °
				-121.324514 °	-121.324514 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40797					
DS_ID:17961					
EP_NO: 6560					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Damaged siphon breaker in pipe riser near the landward shoulder.					
FIELD_STRUCT_DESC: 8-inch pipe through the levee, 7.0 feet below the crown, chain link fence around pump and motor on the waterward slope. (Permit. No. 6560)					
FS Date: 3/26/2013					

Photo 1 of 2 : UCIP_FA_2016_40797_20073.jpg



WS- slanted pump, pipe, and concrete steps on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.81	Rating **	M	Issue No.	110 (cont)	
LM End	1.81	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.926168 °	37.926168 °	
				-121.324514 °	-121.324514 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40797						
DS_ID:17961						
EP_NO: 6560						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Damaged siphon breaker in pipe riser near the landward shoulder.						
FIELD_STRUCT_DESC: 8-inch pipe through the levee, 7.0 feet below the crown, chain link fence around pump and motor on the waterward slope. (Permit. No. 6560)						
FS Date: 3/26/2013						

Photo 2 of 2 : UCIP_FA_2016_40797_20072.jpg



WS- slanted pump, and pipe on levee slope.

LM Start	2.00	Rating **	U	Issue No.	33
LM End	2.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.923673 °	37.923673 °
				-121.323015 °	-121.323015 °
DWR ID	DWR_RD0404_01_s_2016_33				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on waterward slope					

Photo 1 of 1 : FA_2016_RD0404_305_33_20160929_00023.jpg



Looking west at dead tree on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	2.01	Rating **	M	Issue No.	16	
LM End	2.01	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.923470 °		37.923470 °
				-121.322978 °		-121.322978 °
DWR ID	DWR_RD0404_01_f_2013_16					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Slope damage due to foot traffic.						

LM Start	2.01	Rating **	M	Issue No.	16 (cont)
LM End	2.01	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2016_RD0404_305_16_20160929_00014.jpg



Looking west at slope damage due to foot traffic.

Photo 2 of 2 : FA_2016_RD0404_305_16_20160929_00015.jpg



Looking southwest at slope damage due to foot traffic.

LM Start	2.08	Rating **	M	Issue No.	13
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.922669 °	37.922669 °
				-121.322272 °	-121.322272 °
DWR ID	DWR_RD0404_01_f_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_305_13_20161007_00071.jpg



Looking northwest at untrimmed tree on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 0404 Boggs

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	23 (cont)
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.920488 °	37.920338 °
				-121.318630 °	-121.318435 °
DWR ID	DWR_RD0404_01_s_ 2013_23				
Comment Code					
Inspector Comment					
Remove rebar from existing concrete rip rap on waterward slope.					

Photo 2 of 2 : FA_2016_RD0404_305_23_20160929_00017.jpg



Looking southwest at concrete rip rap with rebar.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0404 Boggs

Waterway			Bank	Unit Miles
Unit No. 02 French Camp Slough			Right	1.75
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/7/2016 - 4/7/2016		10/6/2016 - 10/6/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Bob Winter KSN		Bob Winter KSN	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.09	Rating **	M	Issue No.	13
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.919497 °	37.917663 °
				-121.317128 °	-121.299667 °
DWR ID	DWR_RD0404_02_f_2016_13				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.14	Rating **	U	Issue No.	14
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.918875 °	37.918875 °
				-121.316587 °	-121.316587 °
DWR ID	DWR_RD0404_02_f_2016_14				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_306_14_20161007_00031.jpg



Looking southeast at erosion on waterward slope.

LM Start	0.35	Rating **	M	Issue No.	3
LM End	0.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918935 °	37.919543 °
				-121.313335 °	-121.311432 °
DWR ID	DWR_RD0404_02_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent program not working.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.48	Rating **	M	Issue No.	8
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919525 °	37.919525 °
				-121.311193 °	-121.311193 °
DWR ID	DWR_RD0404_02_s_2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent program not working.					

No Photos

LM Start	0.51	Rating **	M	Issue No.	12
LM End	0.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.919528 °	37.919528 °
				-121.310635 °	-121.310635 °
DWR ID	DWR_RD0404_02_f_2012_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.68	Rating **	U	Issue No.	21
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919245 °	37.916652 °
				-121.307705 °	-121.305085 °
DWR ID	DWR_RD0404_02_s_2016_21				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Large holes noted on landward slope.					

Photo 1 of 2 : FA_2016_RD0404_306_21_20160929_00006.jpg



Looking northeast at large rodent hole on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.68	Rating **	U	Issue No.	21 (cont)	
LM End	0.94	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.919245 °		37.916652 °
				-121.307705 °		-121.305085 °
DWR ID	DWR_RD0404_02_s_2016_21					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Large holes noted on landward slope.						

Photo 2 of 2 : FA_2016_RD0404_306_21_20160929_00007.jpg



Looking east at large rodent hole on landward slope.

LM Start	0.73	Rating **	M	Issue No.	70
LM End	0.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.919336 °	37.919336 °
				-121.306782 °	-121.306782 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:10908					
DS_ID:18781					
EP_NO: 3340A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - Not working for 5 years- Golf club staff- Wooden					
Walkway; Concrete steps- Damaged siphon breaker					
FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.0 feet below					
the crown. Pump on pile structure in stream. Shut-off valve and siphon					
breaker on the waterward shoulder. Timber walkway on the waterward					
slope. One CM cutoff wall. (Permit No. 3340A)					
FS Date: 3/27/2013					

Photo 1 of 2 : UCIP_FA_2016_10908_18182.jpg



WS- pump on steel structure and wooden walkway

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.73	Rating **	M	Issue No.	70 (cont)	
LM End	0.73	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.919336 °	37.919336 °	
				-121.306782 °	-121.306782 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:10908						
DS_ID:18781						
EP_NO: 3340A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - Not working for 5 years- Golf club staff- Wooden						
Walkway; Concrete steps- Damaged siphon breaker						
FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.0 feet below						
the crown. Pump on pile structure in stream. Shut-off valve and siphon						
breaker on the waterward shoulder. Timber walkway on the waterward						
slope. One CM cutoff wall. (Permit No. 3340A)						
FS Date: 3/27/2013						

Photo 2 of 2 : UCIP_FA_2016_10908_18181.jpg



WS- damaged, obstructed and buried siphon breaker

LM Start	0.74	Rating **	M	Issue No.	72
LM End	0.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.919308 °	37.919308 °
				-121.306714 °	-121.306714 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:10945 DS_ID:18782 EP_NO: 4448 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete stairway on waterward slope- Not found. Pump was working during field survey. Siphon breaker cap missing. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 9.3 feet below the crown, pump on the landward side. Siphon breaker in concrete well on the waterward shoulder. Two CM cutoff walls. (Permit No. 4448) FS Date: 3/27/2013					

Photo 1 of 2 : UCIP_FA_2016_10945_18248.jpg



WS- siphon breaker without cap in concrete riser

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.74	Rating **	M	Issue No.	72 (cont)	
LM End	0.74	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.919308 °	37.919308 °	
				-121.306714 °	-121.306714 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:10945 DS_ID:18782 EP_NO: 4448 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete stairway on waterward slope- Not found. Pump was working during field survey. Siphon breaker cap missing. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 9.3 feet below the crown, pump on the landward side. Siphon breaker in concrete well on the waterward shoulder. Two CM cutoff walls. (Permit No. 4448) FS Date: 3/27/2013						

Photo 2 of 2 : UCIP_FA_2016_10945_18247.jpg



WS- concrete riser on steep levee slope

LM Start	0.82	Rating **	C	Issue No.	4
LM End	0.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918320 °	37.917162 °
				-121.305740 °	-121.305285 °
DWR ID	DWR_RD0404_02_s_2012_4				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.	20
LM End	1.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.916383 °	37.916383 °
				-121.302802 °	-121.302802 °
DWR ID	DWR_RD0404_02_s_2016_20				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on landward slope and levee crown.					

LM Start	1.08	Rating **	U	Issue No.	20 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_RD0404_306_20_20160929_00004.jpg



Looking at rodent hole on levee crown.

Photo 2 of 2 : FA_2016_RD0404_306_20_20160929_00005.jpg



Looking at rodent hole on landward slope.

LM Start	1.11	Rating **	C	Issue No.	19
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.916337 °	37.916337 °
				-121.302287 °	-121.302287 °
DWR ID	DWR_RD0404_02_s_2016_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Vehicle erosion on landward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	67
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916337 °	37.916337 °
				-121.301888 °	-121.301888 °
DWR ID	DWR_RD0404_02_s_2012_67				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense vegetation around propane tank inside fenced area.					

LM Start	1.13	Rating **	M	Issue No.	67 (cont)
LM End	1.13	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : FA_2016_RD0404_306_67_20160929_00008.jpg



Looking northeast at dense vegetation inside fenced area near pump station on landside toe.

Photo 2 of 4 : FA_2016_RD0404_306_67_20160929_00009.jpg



Looking north at dense vegetation on landward toe around propane tank.

LM Start	1.13	Rating **	M	Issue No.	67 (cont)
LM End	1.13	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2016_RD0404_306_67_20160929_00010.jpg



Looking northeast at dense vegetation on landward toe. (Spring 2013)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 0404 Boggs

Looking east at dense vegetation near pump station on landside toe.

No Photos

Looking east at dead stump on landward toe.

Page 8 of 15

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.23	Rating **	M	Issue No.	64
LM End	1.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.917042 °	37.917042 °
				-121.300400 °	-121.300400 °
DWR ID	DWR_RD0404_02_s_2012_64				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on waterside shoulder and slope. The District is grouting the holes. But rodent program not working.					

No Photos

LM Start	1.24	Rating **	U	Issue No.	18
LM End	1.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917092 °	37.917092 °
				-121.300352 °	-121.300352 °
DWR ID	DWR_RD0404_02_s_2016_18				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree from waterward slope.					

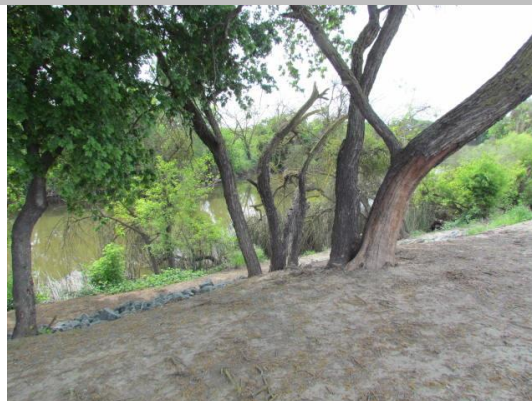
Photo 1 of 2 : FA_2016_RD0404_306_18_20160929_00003.jpg



Looking east at dead trees on waterward slope.

LM Start	1.24	Rating **	U	Issue No.	18 (cont)
LM End	1.24	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0404_306_18_20160929_00002.jpg



Looking at close up view of dead trees on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	61
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918473 °	37.918535 °
				-121.297213 °	-121.295980 °
DWR ID	DWR_RD0404_02_s_2012_61				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.55	Rating **	U	Issue No.	69
LM End	1.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.918411 °	37.918411 °
				-121.295128 °	-121.295128 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:10853 DS_ID:18792 EP_NO: 3340 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and capped 3-in GI pipe found on WS. Damaged air-valve/siphon breaker found on LS.Gully formed due to leaky pipe. A pump house found on LS but it needs to be verified by LMA whether this is associated with this crossing. FIELD_STRUCT_DESC: Abandoned and capped 3-inch GI pipe through levee, 1 feet below the crown; pile structure in stream. damaged siphon breaker at the toe of the landward slope. (Permit No. 3340) FS Date: 3/27/2013					

Photo 1 of 2 : UCIP_FA_2016_10853_18134.jpg



WS- capped 3-inch GI pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.55	Rating **	U	Issue No.	69 (cont)	
LM End	1.55	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.918411 °	37.918411 °	
				-121.295128 °	-121.295128 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:10853 DS_ID:18792 EP_NO: 3340 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and capped 3-in GI pipe found on WS. Damaged air-valve/siphon breaker found on LS.Gully formed due to leaky pipe. A pump house found on LS but it needs to be verified by LMA whether this is associated with this crossing. FIELD_STRUCT_DESC: Abandoned and capped 3-inch GI pipe through levee, 1 feet below the crown; pile structure in stream. damaged siphon breaker at the toe of the landward slope. (Permit No. 3340) FS Date: 3/27/2013						

Photo 2 of 2 : UCIP_FA_2016_10853_18133.jpg



WS- soil erosion and gully formation due to leaky pipe

LM Start	1.63	Rating **	M	Issue No.	10
LM End	1.63	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917972 °	37.917972 °
				-121.293822 °	-121.293822 °
DWR ID	DWR_RD0404_02_f _ 2016_10				
Comment Code					
GA : Garbage					
Inspector Comment					
Garbage on waterward berm					

Photo 1 of 2 : FA_2016_RD0404_306_10_20161007_00027.jpg



Looking south at garbage under tree on waterward berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.63	Rating **	M	Issue No.	10 (cont)	
LM End	1.63	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.917972 °	37.917972 °	
				-121.293822 °	-121.293822 °	
DWR ID	DWR_RD0404_02_f_2016_10					
Comment Code						
GA : Garbage						
Inspector Comment						
Garbage on waterward berm						

Photo 2 of 2 : FA_2016_RD0404_306_10_20161007_00028.jpg



Looking south at garbage under tree on waterward berm.

LM Start	1.75	Rating **	M	Issue No.	73
LM End	1.75	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917324 °	37.917324 °
				-121.291882 °	-121.291882 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41904					
DS_ID:18793					
EP_NO: 6623					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Need to contact owner to determine status of crossing and install markers if appropriate to do so.					
FIELD_STRUCT_DESC: 5-inch steel gas line through the levee, 6.4 feet below the crown and across channel. One CM cutoff wall.					
Waterward slope rock revetted. Vent pipe located at waterward shoulder. (Permit No. 6623-1969)					
FS Date: 3/27/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	17
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.917315 °	37.917315 °
				-121.291807 °	-121.291807 °
DWR ID	DWR_RD0404_02_s_2016_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.76	Rating **	M	Issue No.	68
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917284 °	37.917284 °
				-121.291740 °	-121.291740 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:10846					
DS_ID:18804					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investigate on this crossing.					
FIELD_STRUCT_DESC: 1 of 2. 42-inch-diameter pipelines under the levee. Pipes cross under the channel.					
FS Date: 3/27/2013					

Photo 1 of 2 : UCIP_FA_2016_10846_18127.jpg



LS- 7' x 14' concrete vault.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.76	Rating **	M	Issue No.	68 (cont)	
LM End	1.76	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.917284 °	37.917284 °	
				-121.291740 °	-121.291740 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:10846						
DS_ID:18804						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investigate on this crossing.						
FIELD_STRUCT_DESC: 1 of 2. 42-inch-diameter pipelines under the levee. Pipes cross under the channel.						
FS Date: 3/27/2013						

Photo 2 of 2 : UCIP_FA_2016_10846_18126.jpg



Crown view of the levee.

LM Start	1.76	Rating **	M	Issue No.	71
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917284 °	37.917284 °
				-121.291740 °	-121.291740 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:12426 DS_ID:18787 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investigate on this crossing. FIELD_STRUCT_DESC: 2 of 2. 42-inch-diameter pipelines under the levee. Pipes cross under the channel. FS Date: 3/27/2013					

Photo 1 of 2 : UCIP_FA_2016_12426_20130.jpg



LS- 7' x 14' concrete vault.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.76	Rating **	M	Issue No.	71 (cont)	
LM End	1.76	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.917284 °	37.917284 °	
				-121.291740 °	-121.291740 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:12426						
DS_ID:18787						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Only a 7 ft x 14 ft concrete vault found on LS.Needs a sign post.Bob Winter from KSN(representative of RD 404) will investigate on this crossing.						
FIELD_STRUCT_DESC: 2 of 2. 42-inch-diameter pipelines under the levee. Pipes cross under the channel.						
FS Date: 3/27/2013						

Photo 2 of 2 : UCIP_FA_2016_12426_20129.jpg



Crown view of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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